SAMSUNG

INSTALLATION MANUAL

Cassette Type Series

4 way cassette : AVXC4✳✳

ENGLISH

ESPAÑOL

FRANÇAIS

ITALIANO

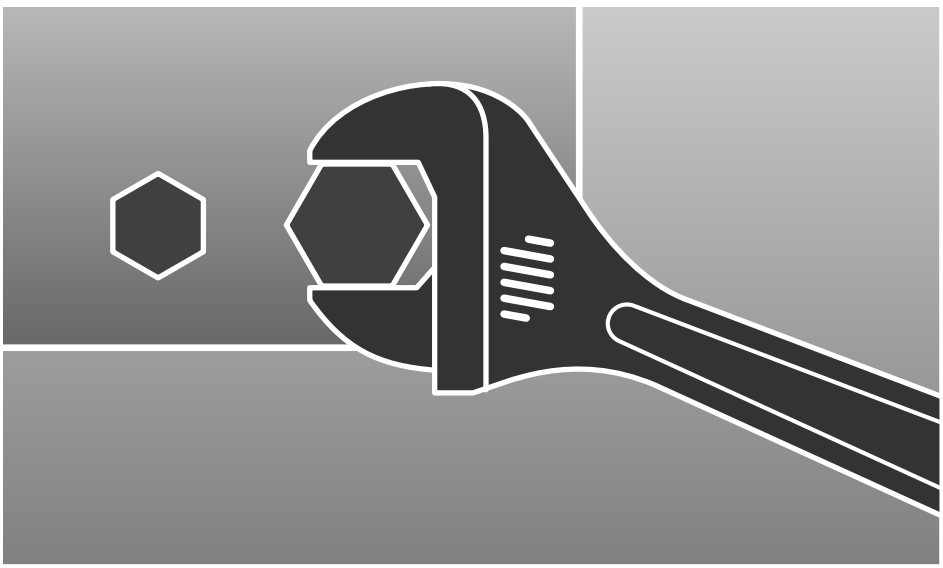
PORTUGUÊS

DEUTSCH

Air Conditioner

R410A

SAMSUNG AIR CONDITIONER



ⒺⓈⒻⒾⓅⒹ DB98-27686A(1)

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Safety Precautions

The following safety precautions must be taken when using your air conditioner.

WARNING

- ***Risk of electric shock can cause injury or death.***
- ***Disconnect all remote electric power supplies before servicing, installing or cleaning.***
- ***Installation must be done by the manufacturer or service agent or a similar qualified person in order to avoid a hazard.***

Installing the unit

- The unit should not be installed by the user. Ask the dealer or authorized company to install the units.
- If the unit is installed improperly, water leakage, electric shock or fire may result.
- Mount with the lowest moving parts at least 2.5 m above the floor or grade level. (If applicable)
- The manufacturer does not assume responsibility for accidents or injury caused by an incorrectly installed air conditioner. If you are unsure about installation, contact an installation specialist.
- When installing the built-in type air conditioner, keep all electrical cables such as the power cable and the connection cord in pipe, ducts, cable channels e.t.c to protect them against liquids, outside impacts and so on.
- This appliance is not accessible to the general public. This appliance should be installed according to the provided installation instruction.
- When installing the air conditioner in a small room, the measure not to exceed the dangerous density is needed.
  - When refrigerant leaks and exceeds the dangerous density, suffocation may occur.
- If any gas or impurities except R410A refrigerant come into the refrigerant pipe, serious problem may occur and it may cause injury.
- Use only rated accessories and install the air conditioner with rated equipments.
  - If you dont't use the rated accessories, the air conditioner may drop from its place, water may leak or electric shock or fire may occur.
- Ventilate your room when refrigerant gas leaks during installation.
  - Toxic gas may generate when refrigerant gas contacts with heat.

Power supply line or circuit breaker

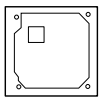
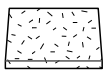
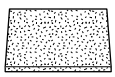
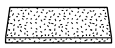
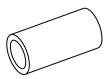
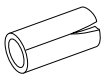
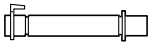
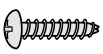
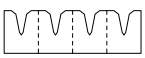
- If the power cable of this air conditioner is damaged, it must be replaced by service agent or similarly qualified persons in order to avoid a hazard.
- The unit must be plugged into an independent circuit if applicable or connect the power cable to the auxiliary circuit breaker. An all pole disconnection from the power supply must be incorporated in the fixed wiring with a contact opening of >3mm.
- The air conditioner must be installed in accordance with national wiring regulations and safety regulations wherever applicable.
- The electric work must be done by service agent or similarly qualified persons according to national wiring regulations and use only rated cable.
  - If the capacity of the power cable is insufficient or electric work is not properly completed, electric shock or fire may occur.
- Install the cables with supplied cables firmly. Fix them securely so that external force is not exerted to the terminal board.
  - If the connection or fixing is incomplete, heat generation, electric shock or fire may occur.
- Connect the power cable between the indoor and outdoor unit properly so that the electrical component box cover is not get loosen and attach the cover securely.
  - If the the cover is attached incompletely, heat generation, electric shock or fire of the terminal board may occur.

CAUTION

- ***Make sure that you earth the cables.***
  - Do not connect the earth wire to the gas pipe, water pipe, lighting rod or telephone wire. If earthing is not complete, electric shock or fire may occur.
- ***Install the circuit breaker.***
  - If the circuit breaker is not installed, electric shock or fire may occur.
- ***Make sure that the condensed water dripping from the drain hose runs out properly and safely.***
- ***Install the power cable and communication cable of the indoor and outdoor unit at least 1m away from the electric appliance.***
- ***Install the indoor unit away from lighting apparatus using the ballast.***
  - If you use the wireless remote control, reception error may occur due to the ballast of the lighting apparatus.
- ***Do not install the air conditioner in following places.***
  - Place where there is mineral oil or arsenic acid
  Resin parts flame and the accessories may drop or water may leak.
  The capacity of the heat exchanger may reduce or the air conditioner may be out of order.
  - The place where corrosive gas such as sulfurous acid gas generates from the vent pipe or air outlet
  The copper pipe or connection pipe may corrode and refrigerant may leak.
  - The place where there is a machine that generates electromagnetic waves
  The air conditioner may not operate normally due to control system.
  - The place where there is a danger of existing combustible gas, carbon fiber or flammable dust
  The place where thinner or gasoline is handled
  Gas may leak and it may cause fire.

Accessories

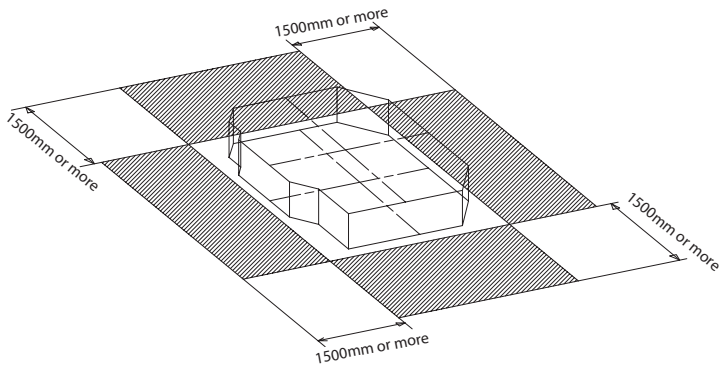
The following accessories are supplied with the indoor unit.
The type and quantity may differ depending on the specifications.

Pattern sheet 	Insulation cover drain 	Insulation 	Insulation cover band 	Insulation pipe 
Insulation drain hose 	Cable-tie	Flexible hose 	M4x12 tapped Screw 	Insulation drain sub
Pad stopper 	User's Manual	Installation manual	Safety net	M4x12 tapped Screw

Indoor Unit

- There must be no obstacles near the air inlet and outlet.
- Install the indoor unit on a ceiling that can support its weight.
- Maintain sufficient clearance around the indoor unit.
- Make sure that the water dripping from the drain hose runs away correctly and safely.
- The indoor unit must be installed in this way, that they are out of public access. (Not touchable by the users)
- Rigid wall without vibration.
- Where it is not exposed to direct sunshine.
- Where the air filter can be removed and cleaned easily.

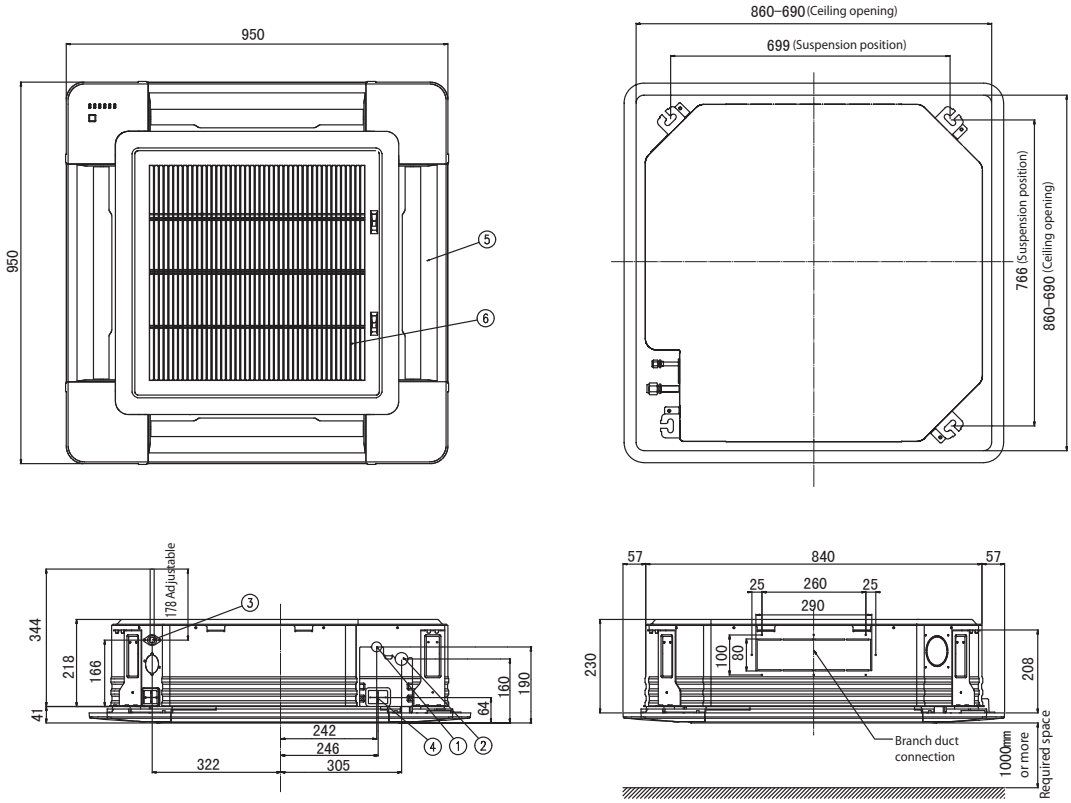
Space Requirements for Indoor Unit



Dimension of the indoor unit

AVXC4✳✳045/056/071/090✳✳

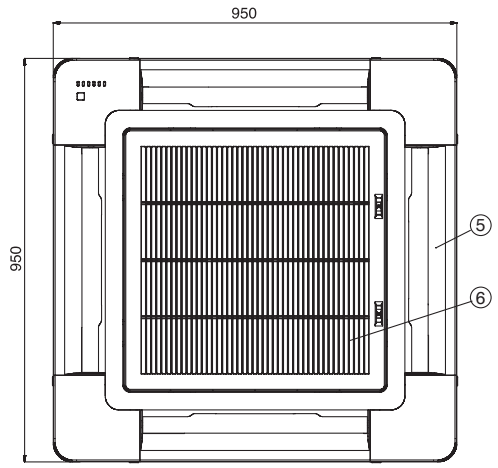
Unit : mm

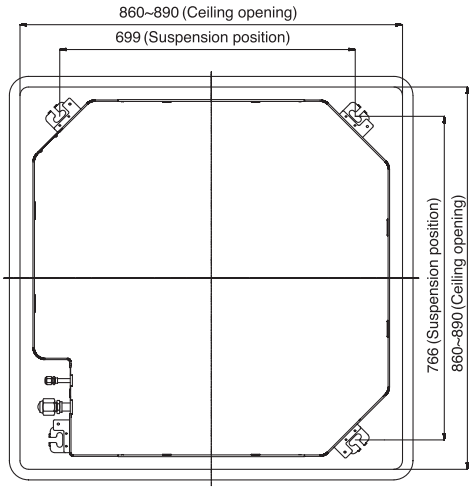


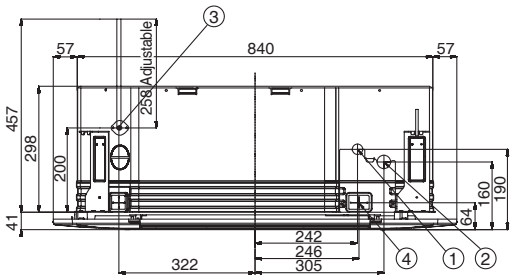
No.	Name	Description
1	Liquid pipe connection	✳✳045/056✳✳ ø6.35 (1/4″) ✳✳071/090✳✳ ø9.52 (3/8″)
2	Gas pipe connection	✳✳045/056✳✳ ø12.70 (1/2″) ✳✳071/090✳✳ ø15.88 (5/8″)
3	Drain pipe connection	VP20 (OD ø26, ID ø20)

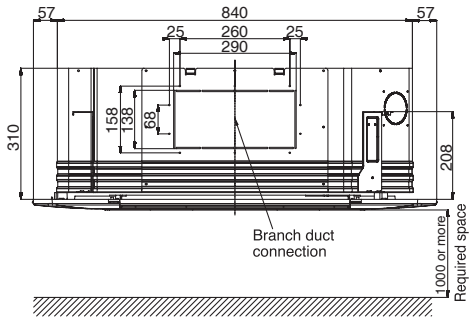
AVXC4✳✳090/112/128/140✳✳

Unit : mm









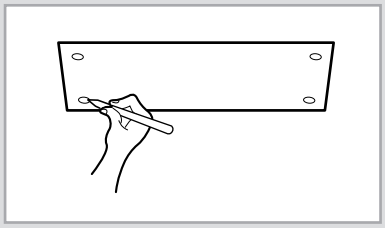
No.	Name	Description
1	Liquid pipe connection	ø9.52 (3/8″)
2	Gas pipe connection	ø15.88 (5/8″)
3	Drain pipe connection	VP25 (OD ø32, ID ø25)

Indoor Unit Installation

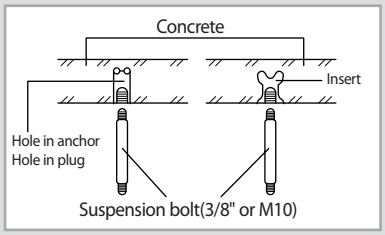
It is recommended to install the Y- joint before installing the indoor unit.

1 Place the pattern sheet on the ceiling at the spot where you want to install the indoor unit.

Note Since the diagram is made of paper, it may shrink or stretch slightly due to temperature or humidity. For this reason, before drilling the holes maintain the correct dimensions between the markings.



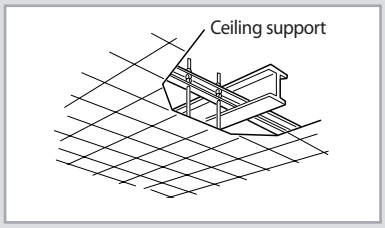
2 Insert bolt anchors, use existing ceiling supports or construct a suitable support as shown in figure.



3 Install the suspension bolts depending on the ceiling type.

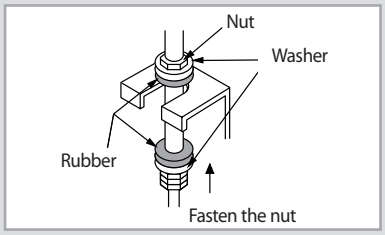
CAUTION

- **Ensure that the ceiling is strong enough to support the weight of the indoor unit. Before hanging the unit, test the strength of each attached suspension bolt.**
- **If the length of suspension bolt is more than 1.5m, it is required to prevent vibration.**



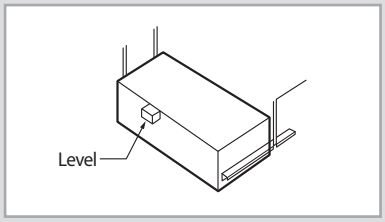
4 Screw eight nuts to the suspension bolts making space for hanging the indoor unit.

CAUTION **You must install the suspension bolts more than four when installing the indoor unit.**



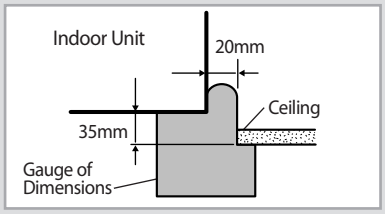
5 Check the level of the indoor unit by using a leveler.

- A tilt of the indoor unit may cause malfunction of a built-in float switch and water leaks.



6 Adjust the height of the indoor unit by using the gauge of dimensions.

- You should adjust the gauge of dimensions and the pattern sheet to fit the cutting dimensions of ceiling.
- Make sure that the indoor unit is installed at a level if the indoor unit slants too much, there can be water leaks.

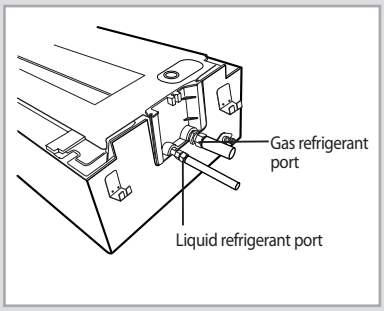


7 Tighten the upper part nuts.

8 Remove the gauge of dimensions after installing the indoor unit.

Purging the Unit

On delivery, the indoor unit is loaded with inert gas.
All this gas must therefore be purged before connecting the assembly piping.
To purge the inert gas, proceed as follows.



✳ The designs and shape are subject to change according to the model.

Unscrew the pinch pipe at the end of each refrigerant pipe.

Result: All inert gas escapes from the indoor unit.

Note To prevent dirt or foreign objects from getting into the pipes during installation, do NOT remove the pinch pipe completely until you are ready to connect the piping.

Connecting the Refrigerant Pipe

There are two refrigerant pipes of differing diameters:

- A smaller one for the liquid refrigerant
- A larger one for the gas refrigerant
- The inside of copper pipe must be clean & has no dust.

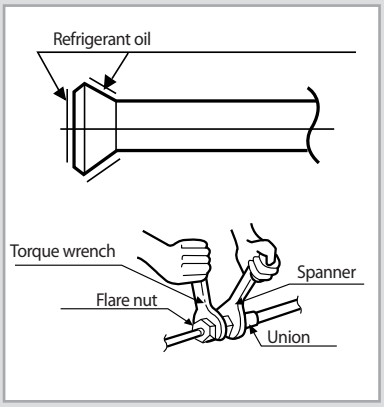
1 Before connecting the reprigerant pipe, open the cover side.

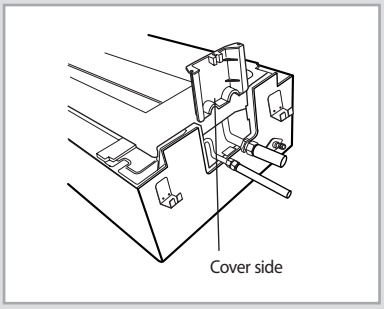
2 Remove the pinch pipe on the pipes and connect the assembly pipes to each pipe, tightening the nuts, first manually and then with a torque wrench, a spanner applying the following torque.

Outer Diameter	Torque (kgf•cm)
6.35 mm (1/4")	145~175
9.52 mm (3/8")	333~407
12.70 mm (1/2")	505~615
15.88 mm (5/8")	630~769

Note Must apply refrigerant oil on the flaring area to prevent a leak.

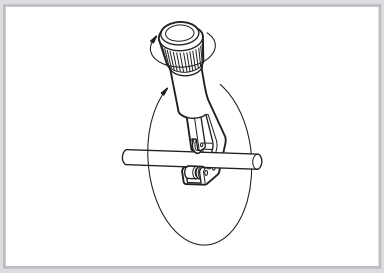
3 Be sure that there must be no crack or kink on the bended area.





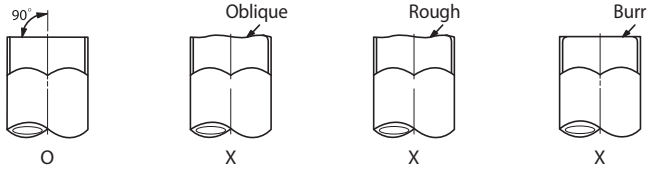
✳ The designs and shape are subject to change according to the model.

Cutting/Flaring the Pipes

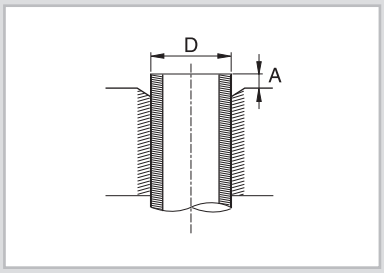


1 Make sure that you prepared the required tools.
(pipe cutter, reamer, flaring tool and pipe holder)

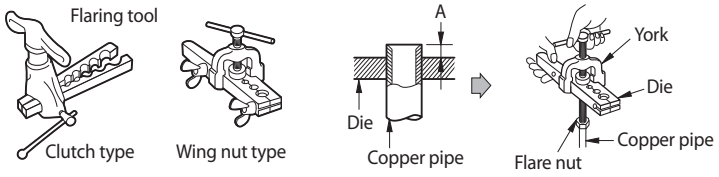
2 If you want to shorten the pipe, cut it using a pipe cutter ensuring that the cut edge remains at 90° with the side of the pipe. There are some examples of correctly and incorrectly cut edges below.



3 To prevent a gas leak, remove all burrs at the cut edge of the pipe using a reamer.

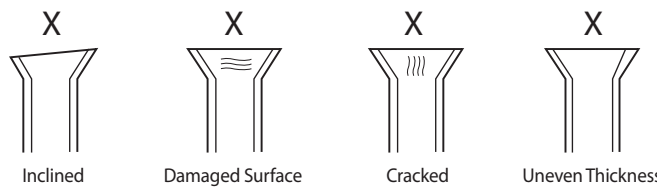


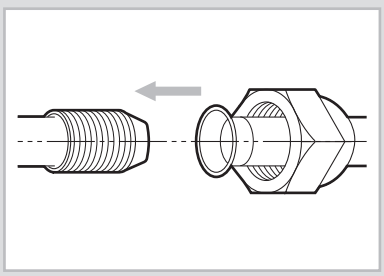
4 Carry out flaring work using flaring tool as shown below.



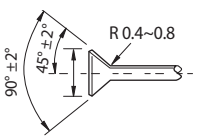
Outer diameter (mm)	A(mm)		
	Flare tool for R410A clutch type	Conventional flare tool	
		Clutch type	Wing nut type
6.35	0~0.5	1.0~1.5	1.5~2.0
9.52	0~0.5	1.0~1.5	1.5~2.0
12.70	0~0.5	1.0~1.5	1.5~2.0
15.88	0~0.5	1.0~1.5	1.5~2.0

5 Check if you flared the pipe correctly. There are some examples of incorrectly flared pipes below.





6

Outer diameter (mm)	Connection Torque (kgf•cm)	Flare dimension (mm)	Flare shape
6.35	145~175	8.70~9.10	
9.52	333~407	12.80~13.20	
12.70	505~615	16.20~16.60	
15.88	630~769	19.30~19.70	

CAUTION

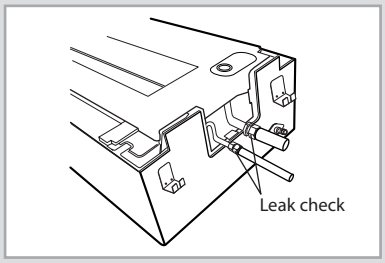
In case of needing brazing, you must work with Nitrogen gas blowing.

Performing Leak Test & Insulation

Leak Test

To check for gas leaks on the indoor unit, check the connection part of each refrigerant pipe by using Nitrogen gas.

Note See detail on outdoor unit installiation mannal for leak test.



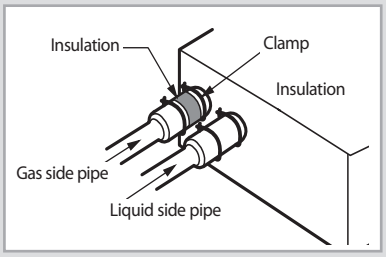
✳ The designs and shape are subject to change according to the model.

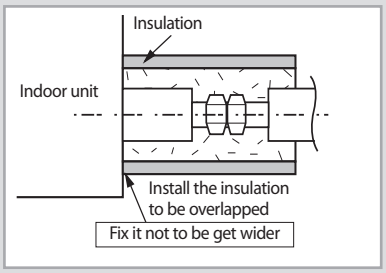
Insulation

Once you have checked that there are no leaks in the system, you can insulate the piping and hose.

1 Insulate the refrigerant pipe.

- Be sure to insulate the refrigerant pipe, joint and connection part.
  -If you insulate the pipes, the condensed water does not fall from the pipes and the capacity of the air conditioner is improved.
- Check if there are any insulation cracks on the bent pipe.

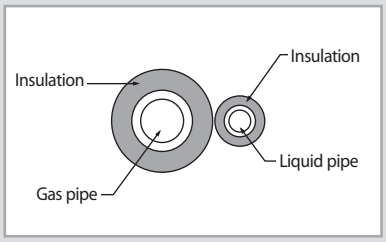


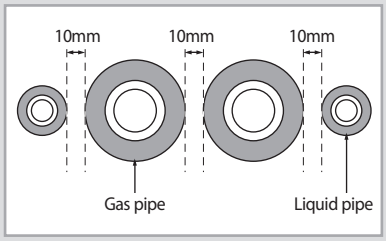


2 Select the insulation of the refrigerant pipe.

- Insulate the gas side and liquid side pipe referring to the thickness according to the pipe size.
- The thickness according to the pipe size is a standard of the indoor temperature of 27°C and humidity of 80%.
  If installing in an unfavorable conditions, use thicker one.
- Insulator's heat-resistance temperature should be more than 120℃.

Pipe size (mm)	Minimum thickness of insulation (mm)		Remarks
	PE foam	EPDM foam	
Ø6.35~Ø15.88	13	10	If you install the pipe underground, at the seaside, a spa or on the lake, use 1 grade thicker one according to the pipe size.
-	25	19	





Refrigerant pipe before EEV kit and MCU or without EEV kit and MCU

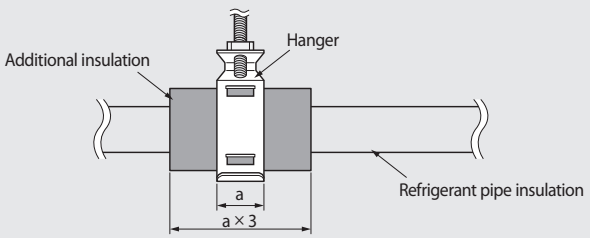
- You can contact the gas side and liquid side pipes but the pipes should not be pressed.
- When contacting the gas side and gas side pipe, use 1 grade thicker insulator.

Refrigerant pipe after EEV kit and MCU

- Install the gas side and liquid side pipes, leave 10mm of space.
- When contacting the gas side and liquid side pipe, use 1 grade thicker insulator.

CAUTION

- ***Install the insulation not to get wider and use the adhesives on the connection part of it to prevent moisture from entering.***
- ***Wind the refrigerant pipe with insulation tape if it is exposed to outside sunlight.***
- ***Install the refrigerant pipe respecting that the insulation does not get thinner on the bent part or hanger of pipe.***
- ***Add the additional insulation if the insulation plate gets thinner.***

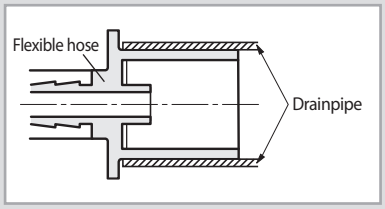


Drain pipe and Drain Hose Installation

Care must be taken when installing the drainpipe and drain hose for the indoor unit so that condensate water is drained correctly outside.

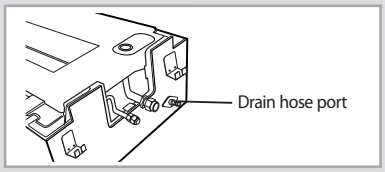
1 Fix the flexible hose to the drainpipe.

- The connection port of the flexible hose and PVC drainpipe must be fixed with PVC adhesives.
- Check out that the connected part doesn't leak.
- Drain pipe type : VP25



2 Connect the flexible hose to the drain hose port.

- Make sure that a rubber ring is installed on the drain hose port.
- Drain hose port location differs depending on the unit types.

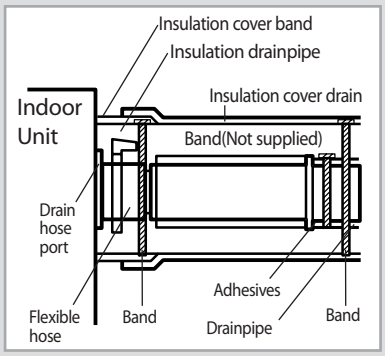


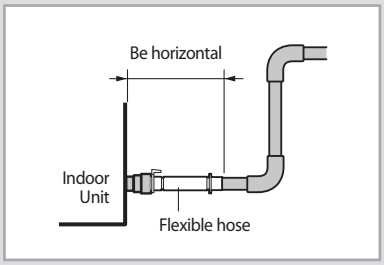
3 Install the drain pipe as shortly as possible.

- Give a slightly slant to the drainpipe for proper drainage of condensate water.
- There must be no gap on the connected part so that the drainpipe is not separated from the flexible hose.

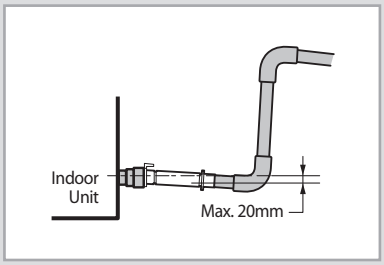
4 Insulate the drainpipe, and then fix it as indicated.

- Whole drainpipe should be insulated by 5t(or more) insulation to prevent water condensation.

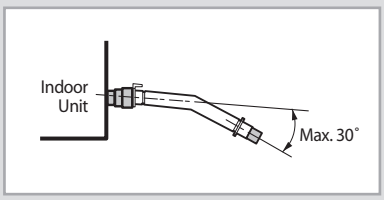




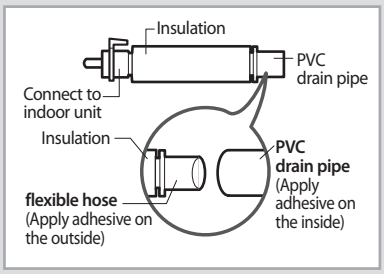
◆ Flexible hose Installation



◆ Max. allowable axis gap



◆ Max. allowable bending angle


Insulation
PVC drain pipe
Connect to indoor unit
Insulation
PVC drain pipe (Apply adhesive on the inside)
flexible hose (Apply adhesive on the outside)

◆ Handle with using adhesive not to block inside of flexible hose

Drainpipe Connection

1 The drain pipe should be installed within 100mm from the flexible hose, lift up from 100mm to 550mm and lift down 20mm or more.

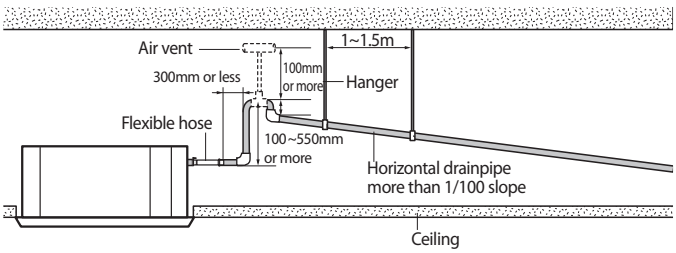
2 Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.

3 Install the air vent in the horizontal drainpipe to prevent water flow back to the indoor unit.

Note You may not need to install it if there were proper slope in the horizontal drainpipe.

4 The flexible hose should not be installed upward position, it may cause water flow back to the indoor unit.

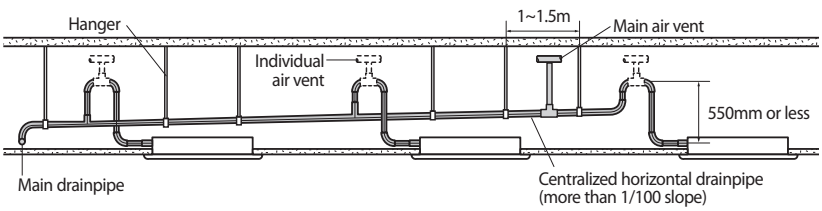
5 Install U-trap at the end of the drainpipe to prevent a nasty smell to reach the indoor unit.



Centralized Drainage

1 Install main air vent at the front of the farthest indoor unit from the main drain when installed indoor units are more than 3.

2 You may need to install individual air vent to prevent water flow back at the top of each indoor unit drainpipe.



Testing the Drainage

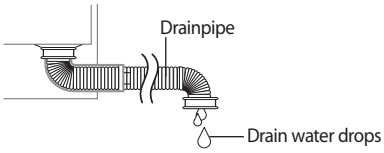
You should test drainage after completing the installation.
Prepare a little water about 1.0 liter.

1 Open the cover water supply intake.

2 Pour water into the water supply intake.

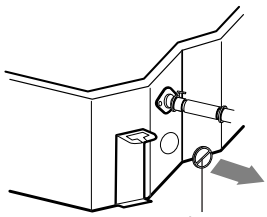
3 Operate the unit in the Cool mode and check a drain pump pumping.

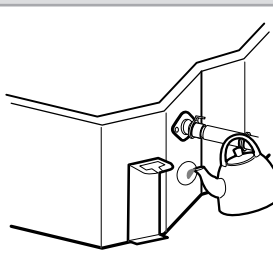
4 Check drain water drops at the end of the drainpipe.



5 Make sure there is no water leak at the drainage.

6 When you finished the test, close the coverside.





CAUTION

When maintaining the air conditioner, remove condensate water remained in the drain pan by using a drain port for maintenance.

Power and communication cable connection

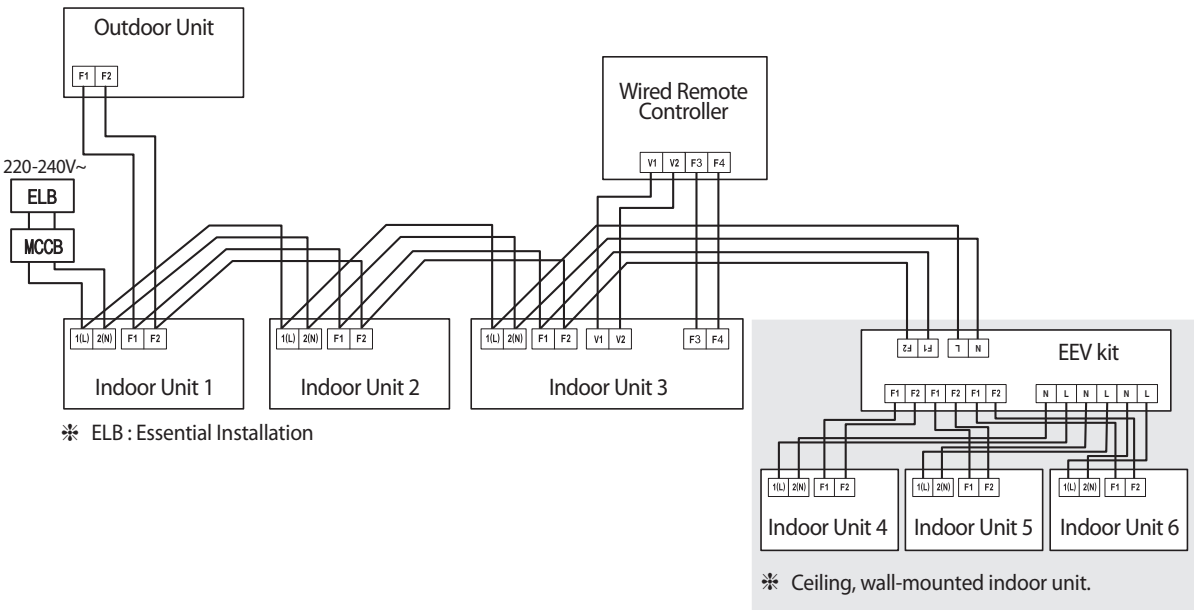
1 Before wiring work, you must turn off all power source.

2 Indoor unit power should be supplied through the breaker(MCCB, ELB) separated by the outdoor power.

3 The power cable should be used only copper wires.

4 Connect the power cable{1(L), 2(N)} among the units within maximum length and communication cable(F1, F2) each.

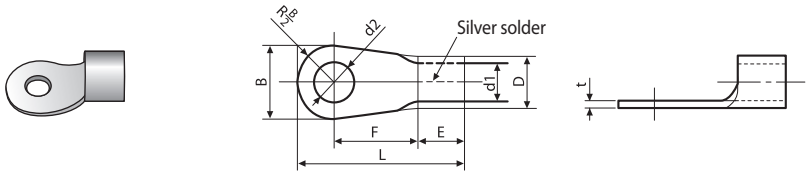
5 Connect V1, V2(for DC12V) and F3, F4(for communication) when installing the wired remote controller.



❊ ELB : Essential Installation

❊ Ceiling, wall-mounted indoor unit.

Selecting compressed ring terminal



Norminal dimensions for cable (mm²)	Norminal dimensions for screw (mm)	B		D		d1		E	F	L	d2		t
		Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Min.	Min.	Max.	Standard dimension (mm)	Allowance (mm)	Min.
1.5	4	6.6	±0.2	3.4	+0.3 -0.2	1.7	±0.2	4.1	6	16	4.3	+0.2 0	0.7
	4	8											
2.5	4	6.6	±0.2	4.2	+0.3 -0.2	2.3	±0.2	6	6	17.5	4.3	+0.2 0	0.8
	4	8.5											
4	4	9.5	±0.2	5.6	+0.3 -0.2	3.4	±0.2	6	5	20	4.3	+0.2 0	0.9

Specification of electronic wire

Power supply	MCCB	ELB	Power cable	Earth cable	Communication cable
Max : 242V Min : 198V	X A	X A, 30mmA 0.1 sec	2.5mm^2	2.5mm^2	0.75~1.5mm^2

◆ Decide the capacity of ELB and MCCB by below formula.

The capacity of ELB, MCCB X [A] = 1.25 X 1.1 X ∑Ai

✳ X : The capacity of ELB, MCCB

✳ ∑Ai : Sum of Rating currents of each indoor unit.

✳ Refer to each installation manual about the rating current of indoor unit.

◆ Decide the power cable specification and maximum length within 10% power drop among indoor units.

$$\sum_{k=1}^{n}\left(\frac{Coef\times 35.6\times L_k\times i_k}{1000\times A_k}\right) < \text{10\% of input voltage[V]}$$

✳ coef: 1.55

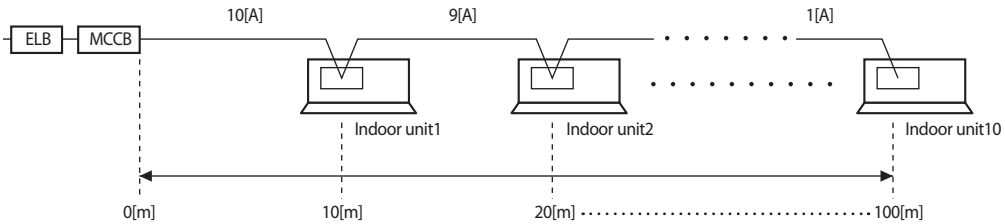
✳ L_k: Distance among each indoor unit[m], A_k: Power cable specification[mm^2]
i_k: Running current of each unit[A]

❇ Rating current

Unit	Model	Rating current
AVXC4✳✳	✳✳045✳✳	0.19A
	✳✳056✳✳	0.19A
	✳✳071✳✳	0.21A
	✳✳090✳✳	0.23A
	✳✳112✳✳	0.23A
	✳✳128✳✳	0.30A
	✳✳140✳✳	0.36A

Example of Installation

- Total power cable length L = 100(m), Running current of each units 1[A]
- Total 10 indoor units were installed

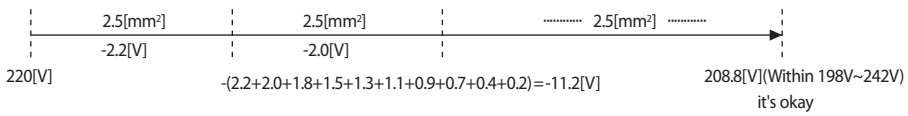


◆ Apply following equation.

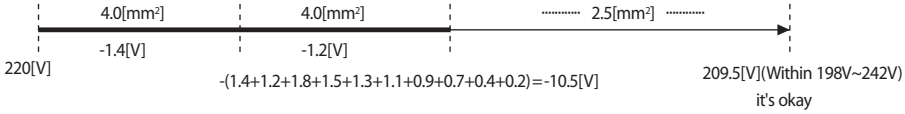
$$\sum_{k=1}^{n}\left(\frac{Coef\times 35.6\times L_k\times i_k}{1000\times A_k}\right) < \text{10\% of input voltage[V]}$$

❇ Calculation

● Installing with 1 sort wire.



● Installing with 2 different sort wire.



CAUTION

- ***Select the power cable in accordance with relevant local and national regulations.***
- ***Wire size must comply with local and national code.***
- ***For the power cable, use the grade of H07RN-F or H05RN-F materials.***
- ***You should connect the power cable into the power cable terminal and fasten it with a clamp.***
- ***The unbalanced power must be maintained within 10% of supply rating among whole indoor units.***
- ***If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 10% of supply rating, the indoor unit is protected, stopped and the error mode indicates.***
- ***To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units in the iron pipe.***
- ***Connect the power cable to the auxiliary circuit breaker. An all pole disconnection from the power supply must be incorporated in the fixed wiring(≥3mm).***
- ***You must keep the cable in a protection tube.***
- ***Keep distances of 50mm or more between power cable and communication cable.***
- ***Maximum length of power cables are decided within 10% of power drop. If it exceeds, you must consider another power supplying method.***
- ***The circuit breaker(MCCB, ELB) should be considered more capacity if many indoor units are connected from one breaker.***
- ***Use round pressure terminal for connections to the power terminal block.***
- ***For wiring, use the designated power cable and connect it firmly, then secure to prevent outside pressure being exerted on the terminal board.***
- ***Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will strip the head and make proper tightening impossible.***
- ***Over-tightening the terminal screws may break them.***
- ***See the table below for tightening torque for the terminal screws.***

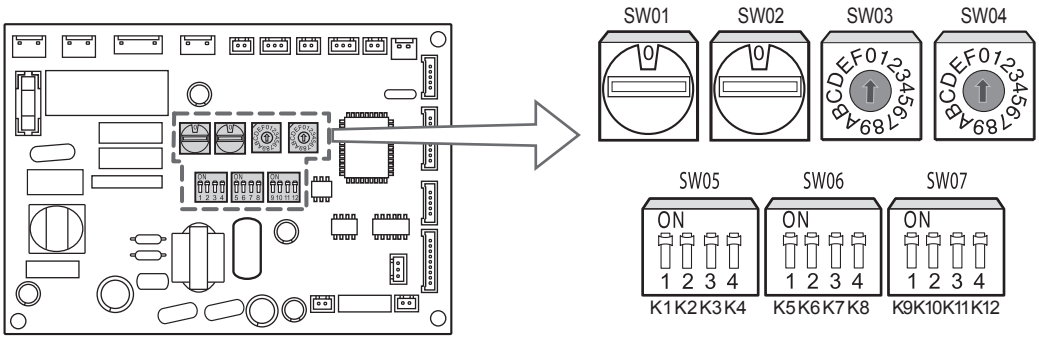
Tightening torque(kgf·cm)	
M4	12.0~14.7

Indoor Unit Setting

Main Address Setting

1 Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.

2 The address of the indoor unit is assigned by adjusting MAIN(SW01, SW02) and RMC(SW03, SW04) rotary switches.



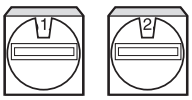
✳ The designs and shape are subject to change according to the model.

Setting Main Address

- The MAIN address is for communication between the indoor unit and the outdoor unit. Therefore, you must set it to operate the air conditioner properly.
- You can set the MAIN address from '00' to '99' by mixing SW01 and SW02. The MAIN address from '00' to '99' should differ from each other.
- Check the indoor unit address on the plan that you are to install and set the address according to the plan.

Note You may not need to set main address if you selected Auto Address Setting from the outdoor unit: see details on the outdoor unit installation manual.

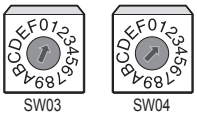
For Example **When Main address is set as "12".**



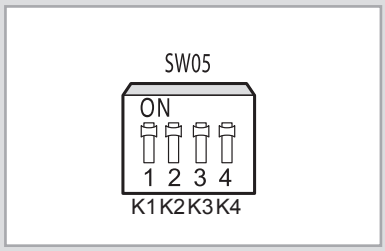
Setting RMC Address

- You must set the SW03, SW04 and K2 switch when using the centralized controller.

For Example **When RMC address is set as "12".**

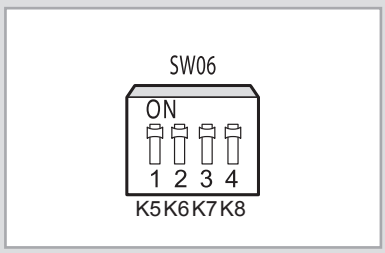


Additional Functions



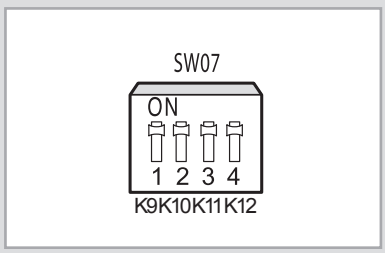
No.		Function	ON	OFF
SW05	K1	Wired remote control	-	-
	K2	Centralized control	Not use	Use
	K3	RPM up	Normal	up
	K4	Option drain pump	N/A	N/A

❉ N/A : Not Available



No.		Function	ON	OFF
SW06	K5	Heating thermo-off	+5℃	+2℃
	K6	Filter signal display	1,000 hours	2,000 hours
	K7	Hot water coil	N/A	N/A
	K8	Electrical heater	Not use	Use

❉ N/A : Not Available



No.		Function	ON	OFF
SW07	K9	Min. EEV step at heating	Fix 80 step	0 or 80 step
	K10	Transmitter grouping	N/A	N/A
	K11	External control	Not Use	Use
	K12	Spare	-	-

❉ N/A : Not Available

Final Checks and User Tips

To complete the installation, perform the following checks and tests to ensure that the air conditioner operates correctly.

1 Check the following.

- ◆ Strength of the installation site
- ◆ Tightness of pipe connection to detect a gas leak
- ◆ Electric wiring connections
- ◆ Heat-resistant insulation of the pipe
- ◆ Drainage
- ◆ Earth conductor connection
- ◆ Correct operation (follow the steps below)

After finishing the installation of the air conditioner, you should explain the following to the user. Refer to appropriate pages in the User's Manual.

1 How to start and stop the air conditioner

2 How to select the modes and functions

3 How to adjust the temperature and fan speed

4 How to adjust the airflow direction

5 How to set the timers

6 How to clean and replace the filters

Note ***When you complete the installation successfully, hand over the User's Manual and this Installation Manual to the user for storage in a handy and safe place.***

Detection of errors

- If an error occurs during the operation, one or more LED flickers and the operation is stopped except the LED.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.

LED Display on the receiver & display unit

LED Display

Abnormal conditions	Indicators					Operating
	⏻ Green	⏻ Red	⏲	✣	▦	
Power reset	◑	X	X	X	X	
Error of temperature sensor in indoor unit (OPEN/SHORT)	X	X	◑	X	X	Displayed on appropriate indoor unit which is operating
Error of heat exchanger sensor in indoor unit Error of heat exchanger OUT sensor in indoor unit Error of outlet temperature sensor in indoor unit (OPEN/SHORT): For heat pump models only	◑	X	◑	X	X	Displayed on appropriate indoor unit which is operating
Error of indoor fan motor: Below 450RPM for 15 minutes	X	X	X	◑	X	Displayed on appropriate indoor unit which is operating
Error of outdoor temperature sensor Error of COND sensor Error of DISCHARGE sensor	◑	X	X	◑	X	Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
1. No communication for 2 minutes between indoor unit and outdoor unit (communication error for more than 2 minutes) 2. Indoor unit receiving the communication error from outdoor unit 3. Outdoor unit tracking 3 minute error 4. When sending the communication error from outdoor unit due to the mismatching of the communication numbers and installed numbers after completion of tracking (communication error for more than 2 minutes)	X	X	◑	◑	X	1. Error of indoor unit: Displayed on the indoor unit regardless of operation 2. Error of outdoor unit: Displayed on the indoor unit which is operating

● On ◑ Flickering X Off

- If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- If you re-operate the air conditioner, it operates normally at first, then detects an error again.

LED Display

Abnormal conditions	Indicators					Operating
		Green	Red			
Self-diagnostic error (including the indoor unit not detected) 1. Error of electronic expansion valve close 2. Error of electronic expansion valve open 3. Breakaway of EVA OUT sensor 4. Breakaway of EVA IN sensor		X	X	X	◑	◑	Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
5. Breakaway of COND MID sensor 6. 2nd detection of refrigerant completely leak 7. 2nd detection of high temperature COND 8. 2nd detection of high temperature DISCHARGE 9. COMP DOWN due to 2nd detection of low pressure switch 10. Error of reverse phase 11. Compressor down due to 6th detection of freezing 12. Self-diagnosis of condensation sensor (G8, G9) 13. Compressor down due to condensation ratio control		X	X	◑	◑	◑	Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
Detection of the float switch		X	X	X	◑	◑	
Error of setting option switches for optional accessories		X	X	◑	X	◑	
EEPROM error		◑	X	◑	◑	X	
EEPROM option error		◑	◑	◑	◑	◑	

● On ◑ Flickering X Off

- If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- If you re-operate the air conditioner, it operates normally at first, then detects an error again.

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